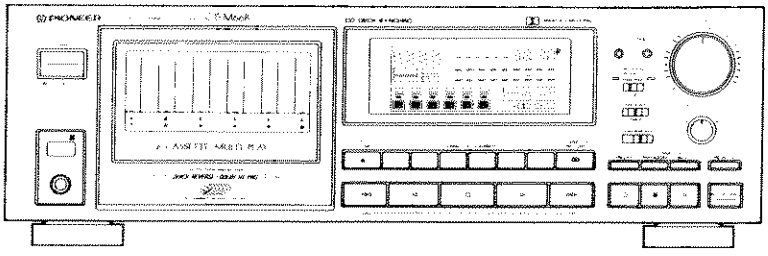
Operating Instructions

MULTI-CASSETTE CHANGER

CT-M66R
CT-M55R



This manual is applicable for both CT-M66R and CT-M55R. For convenience, the illustrations employed in the explanations are of CT-M66R.

Thank you for buying this Pioneer product.
Please read through these operating instructions so you will know how to operate your unit properly. After you have finished reading these instructions, keep the manual in a safe place for future reference.
In some countries or regions, the shape of the power plug and power outlet may sometimes differ from that shown in the drawings. However, the method of connecting and operating the unit is the same.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

IMPORTANT NOTICE
[For U.S. and Canadian models]

The serial number for this equipment is located on the rear panel. Please write your serial number on your enclosed warranty card and keep it in a secure area. This is for your security.

[For Canadian model]

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

[Pour le modèle Canadien]

L'interférence radioélectrique générée par cet appareil numérique de type B ne dépasse pas les limites énoncées dans le Règlement sur les perturbations radioélectriques, section appareil numérique, du Ministère des Communications.

[For Canadian model]

CAUTION: TO PREVENT ELECTRIC SHOCK DO NOT USE THIS (POLARIZED) PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

ATTENTION: POUR PREVENIR LES CHOCS ELECTRIQUES NE PAS UTILISER CETTE FICHE POLARISEE AVEC UN PROLONGATEUR, UNE PRISE DE COURANT OU UNE AUTRE SORTIE DE COURANT, SAUF SI LES LAMES PEUVENT ETRE INSEREES A FOND SANS EN LAISSER AUCUNE PARTIE A DECOUVERT.

LINE VOLTAGE SELECTOR SWITCH

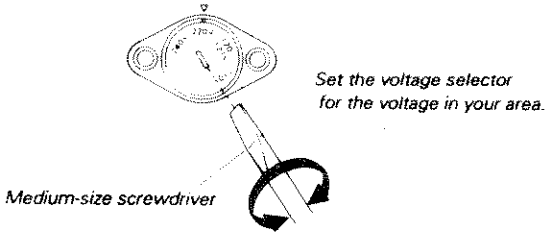
Only multi-voltage models are provided with this switch.

U.S., Canadian, European, U.K., and Australian models are not provided with this switch.

Mains voltages in Saudi Arabia are 127V and 220V only. Never use this model with 110V setting in Saudi Arabia.

The line voltage selector switch is on the rear panel. Before your model is shipped from the factory, this switch is set to the power requirements of the destination. Check that it is set properly before plugging the power cord into the AC wall socket. If the voltage is not properly set or if you move to an area where the voltage requirements differ, adjust the selector switch as follows.

1. Disconnect the power cord.
2. Use a medium-size screwdriver.
3. Insert the screwdriver into the groove on the voltage selector, and adjust so that the tip of the arrow points to the voltage value of your area.



"This product complies with the Radio Interference requirements of the EC (European Community) Directive 87/308/EEC."

PIONEER
The Art of Entertainment

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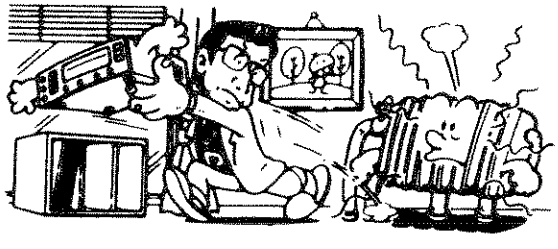
INSTALLATION

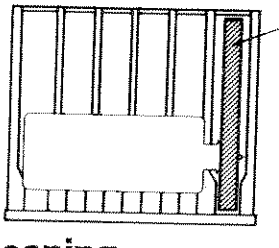
When installing the deck, avoid locations with high temperature or humidity, and be sure that the location is well ventilated.
Do not install the deck in locations subject to direct sunlight, or next to a space heater or other heating device, since the finish or internal parts may be affected adversely. Malfunctions may also result if the unit is installed in a humid or dusty location. Also avoid installations next to kitchen counters or other place subject to oily smoke or heat.



- If you place the unit directly on top of an amplifier, it may pick up humming or other noise. Also, if the amplifier generates a large amount of heat, the unit may break down.
- Place on a surface that is flat and level or almost flat and level.
- If you place the unit near a television set, it may pick up noise which may be recorded as a whistling tone on the tape. In such a case, either install the unit away from the television set or switch OFF the television set.

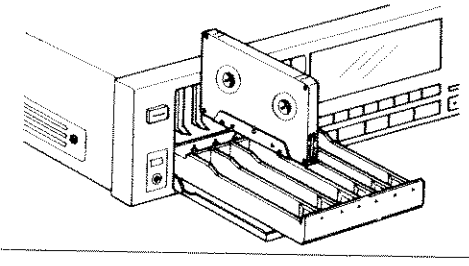
NOTE:
When installing the cassette deck, do not place a cloth over the top or block the ventilation openings in any other way.

NOTE:
Please take out this cassette tray protector before use and keep it for future use.
All cassette tapes must be removed from the cassette tray and tape transport area, and the protector must be replaced in slot 6 whenever the cassette deck is moved.



Head Cleaning

- A head cleaning cassette is necessary for cleaning of the recording/playback heads.
- To enjoy perfect performance and high-quality sound, clean the head periodically (once every 10 hours).
- Please use a commercially available "Wet type" cleaning cassette. (For details, refer to the instructions supplied with the cleaning cassette.) For more information, see "MAINTENANCE". (→ page 20)



INFORMATION TO USER [FOR U.S. MODEL]

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
- reorient the receiving antenna
- relocate this equipment with respect to the receiver
- move this equipment away from the receiver
- plug this equipment into a different outlet so that equipment and receiver are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful:
"How to Identify and Resolve Radio-TV Interference Problems"
This booklet is available from the US Government Printing Office, Washington, D.C., 20402, Stock No. 004-000-00345-4.

The above instructions apply only to units which will be operated in the United States.

CONNECTIONS

- Read through the operating instructions of the stereo components which you intend to connect to this unit.
- Turn on the power only after all the connections are completed.
- Make sure that the plugs are inserted securely. Improper connection may generate noise.

CD-DECK SYNCHRO jack
If this unit is used together with a PIONEER CD player equipped with the synchro function, synchro recording from the CD player can be carried out with one touch of a button. (→ page 18)
Use the supplied CD-Deck synchro control cord to connect the CD-DECK SYNCHRO jack on this unit to the CD-DECK SYNCHRO jack on the CD player.

For CT-M66R, CT-M55R (U.S., Canadian, Australian and Multi-voltage models) PIONEER System remote control

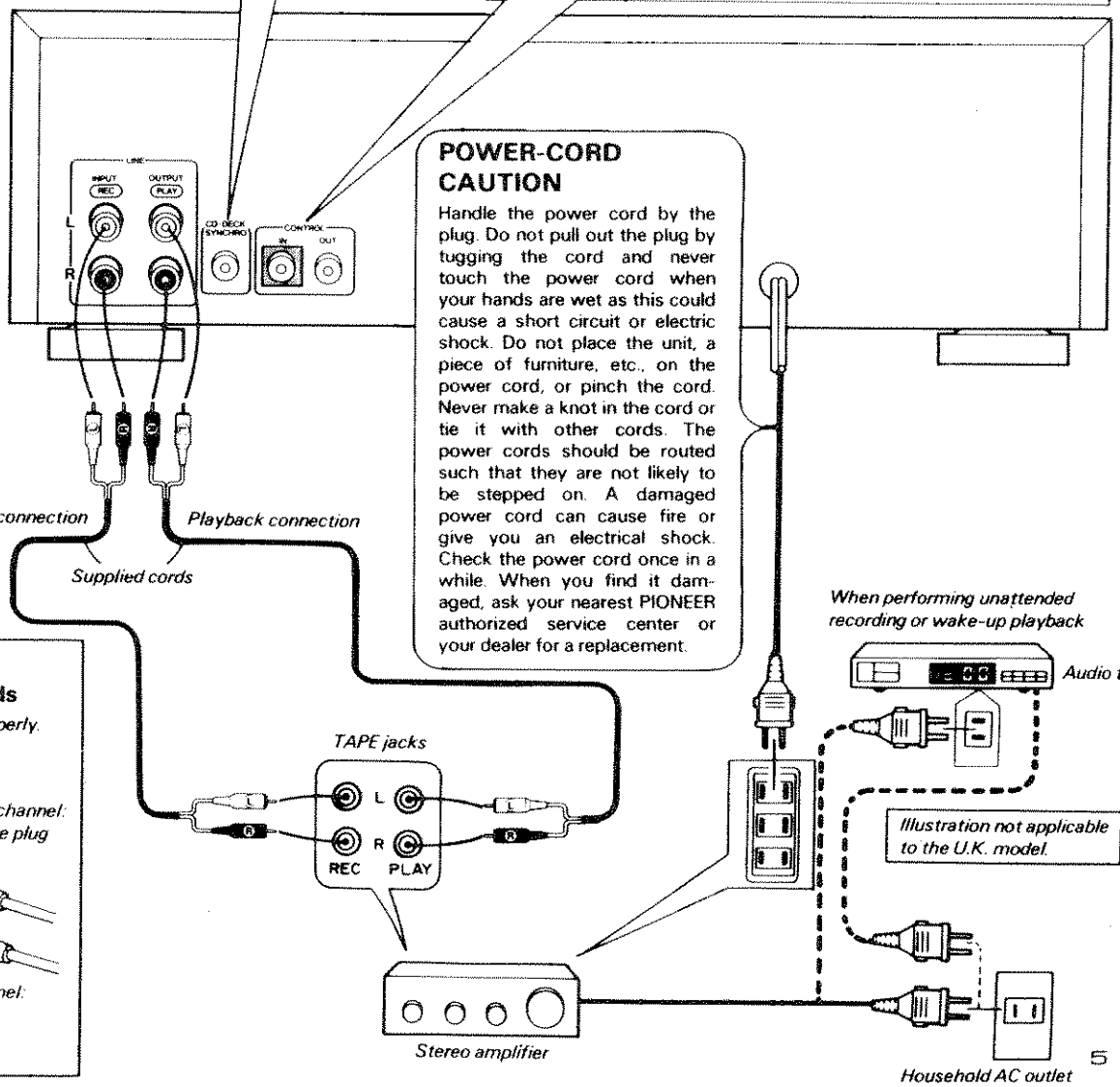
Connect the CONTROL IN jack to a component equipped with the PIONEER System remote control (bearing the SR mark), and you will be able to operate this component from the hand-held remote controller that comes with the component connected.

NOTE: (CT-M66R U.S., Canadian, Australian and Multi-voltage models only)

When the system remote control cord is connected to the CONTROL IN and CONTROL OUT jacks, the remote control sensor window does not operate.

CONTROL IN jack
Connect the jack to the CONTROL OUT jack of a component equipped with the PIONEER System Remote Control (bearing the SR mark) using the supplied mini-plug cord, and you will be able to operate this component using the system remote control.

CONTROL OUT jack
Intermediary output of remote control signals from the above input jack. Connect it to the CONTROL IN jack of another component compatible with the Pioneer System Remote Control.

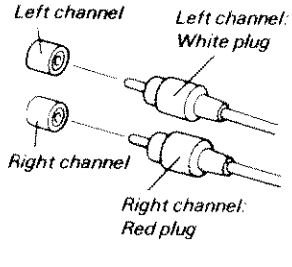


POWER-CORD CAUTION

Handle the power cord by the plug. Do not pull out the plug by tugging the cord and never touch the power cord when your hands are wet as this could cause a short circuit or electric shock. Do not place the unit, a piece of furniture, etc., on the power cord, or pinch the cord. Never make a knot in the cord or tie it with other cords. The power cords should be routed such that they are not likely to be stepped on. A damaged power cord can cause fire or give you an electrical shock. Check the power cord once in a while. When you find it damaged, ask your nearest PIONEER authorized service center or your dealer for a replacement.

Connecting the input/output cords

Connect the plugs properly.



⑩ **ALL REWIND button**
Press this button to rewind all tapes automatically, starting with the lowest numbered tape on the tray. The counter display changes to " RLL " during this operation.
If the tray is open, it will automatically close by pressing this button.

⑪ **CD SYNCHRO button**
This button is used to carry out CD-Deck synchro recording from a CD player. (→page 18)

⑫ **Recording mute button (O)**
When this button is pressed during recording, the deck creates a 4-second blank space on the tape and then enters record-pause mode.
When you hold this button down, a continuous blank space is created until you release this button. (— page 14)

⑬ **Pause button (▮▮)**
Press this button when it is desired to temporarily pause playback or recording. Press the button again to resume playback or recording. The pause button cannot be used during fast-forward or rewind. Recording can begin when this button is pressed after pressing the recording (●) button.

⑭ **Recording button (●)**
When this button is pressed, the deck enters record-standby mode. Recording begins when the play ▶ (or ◀) button or pause (▮▮) button is pressed.

⑮ **CASSETTE control buttons**

RELAY: Press this button to relay record or playback the cassettes on the tray. (The RELAY indicator lights.)

RANDOM: Press this button to playback all cassettes on the tray in a random order. (The RANDOM indicator lights.)
The unit will stop when one side (in the ⇉ mode) or both sides (in the ⇄ mode) have been fully played back.
During random playback, the ⇄ (repeat) mode turns into two-way (⇉) mode.

SCAN: Press this button to playback each cassette on the tray for about 10 seconds starting from the lowest numbered cassette. (Counter display changes to " SCAN ")

NOTE:
If a blank section is played back for approximately 15 seconds, the blank skip function will come into effect. The tape is automatically forwarded to the beginning of the next selection and then playback begins.

⑯ **TIMER switch**

RELAY REC: Set to this position for relay recording by timer.

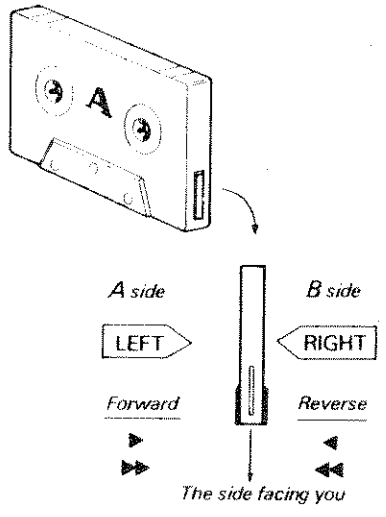
REC: Set to this position for a single cassette recording by timer.

OFF: Set to this position when not using the timer. (The switch should normally be set to this position.)

PLAY: Set to this position for playback by timer. Also set to this position for relay playback by timer with multiple cassettes.

⑰ **CASSETTE RETURN button**
Press this button to return the loaded cassette to the tray.

⑱ **Operation buttons**
NOTE:
Please keep in mind the illustration below to insure proper operation of your unit.



Fast-forward ▶▶:
When this button is pressed during stop mode, the tape is fast-forwarded in the direction of the arrows. When pressed during playback, the playback position skips forward by one selection for each press of the button (up to 15 selections), and playback resumes at the beginning of the designated selection. (Music search →page 16)

Reverse play ◀:
Press this button to play back or record on the reverse side of the tape (the right side). (Reverse playback/recording)
Used to start recording in record-standby mode.
If the tray is open, it will automatically close and if a cassette is not loaded, the lowest numbered cassette will be loaded then playback will occur.

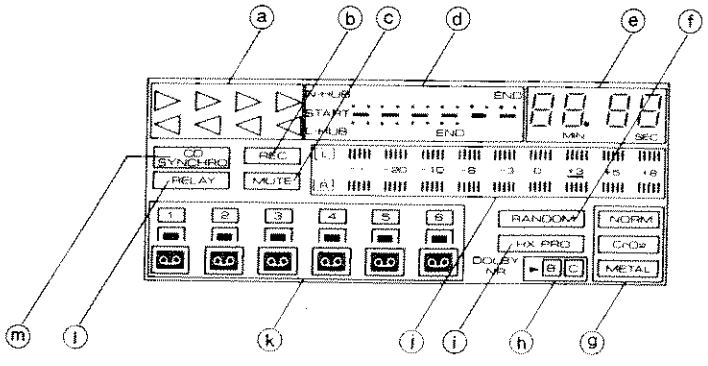
Stop ■:
Press this button to stop the tape transport.

Forward play ▶:
Press this button to play back or record on the forward side of the tape (the left side). (Forward playback/recording)
Used to start recording in record-standby mode.
If the tray is open, it will automatically close and if a cassette is not loaded, the lowest numbered cassette will be loaded then playback will occur.

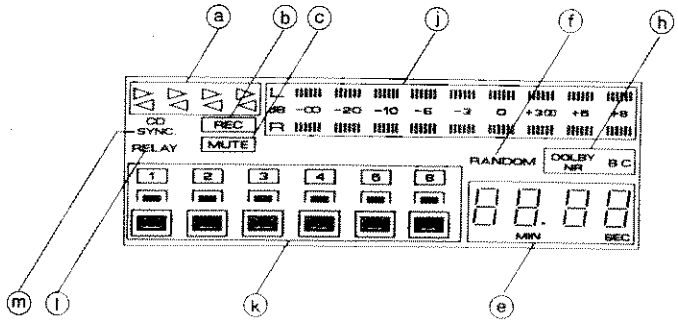
Fast-reverse ◀◀:
When this button is pressed during stop mode, the tape is fast-forwarded in the direction of the arrows. When pressed during playback, the playback position skips forward by one selection for each press of the button (up to 15 selections), and playback resumes at the beginning of the designated selection. (Music search →page 16)

DISPLAY WINDOW

CT-M66R



CT-M55R



ⓐ **Tape running indicator (▷ ▷ ▷ ▷ / ◁ ◁ ◁ ◁)**
Indicates the direction of recording or playback, or of fast-forward or rewind. These indications should flash when the deck is in the recording pause or play pause. (— page 11)

ⓑ **Recording indicator (REC)**
Lights when the record button is pressed.

ⓒ **Recording mute indicator (MUTE)**
Lights or flashes when the recording mute (O) button is pressed during recording.
Flashes when you press the recording mute (O) button once. If you press the button down for more than 4 seconds, it will light up after flashing for 4 seconds. (— page 14)

ⓓ **Remaining Time indicators (CT-M66R only)**
Indicate the approximate remaining time of a tape when the deck is in the record or playback mode. When the tape is close to the end, each indicator will flash and then go off in sequence.
(— page 12)

ⓔ **Tape counter/time counter/music search selection number display**
Tape counter:
The number on the display is incremented (or decremented) as the tape is advanced (or rewound). (— page 12)
Time counter:
Indicates the amount of time which has elapsed since the start of playback or recording up to 99 minutes 99 seconds.
- The display switches between the tape counter and the time counter each time the COUNTER MODE button is pressed.

Music search selection number display:
Displays the number or the selection being searched for during music search mode. (— page 16)

ⓕ **RANDOM play indicator**
Lights when the deck is in the random play mode.

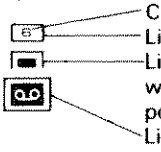
ⓖ **Tape type indicators (NORM, CrO_2, METAL) (CT-M66R only)**
The tape type (NORMAL, CrO_2, METAL) of the currently loaded tape is automatically detected and displayed.

ⓗ **Dolby B/C NR indicator**
Indicates Dolby B-type or C-type noise reduction.

ⓘ **Dolby HX PRO indicator (CT-M66R only)**
This unit is provided with a built-in Dolby HX PRO Headroom Extension circuit. The Dolby HX PRO indicator always appears on the display when the POWER switch is turned on.

ⓙ **Level meter**
Indicates the left and right channel signal levels. Indicates the recording level during recording, and the recorded level during playback. The — mark under +3 indicates (CT-M55R:▯▯mark) the Dolby noise reduction system standard level.

ⓚ **Cassette Storage indicators**


Cassette number (always on)
Lights when deck chooses by random playback
Lights when cassette has been loaded; flashes when being loaded from the tray to the tape transport mechanism or vice versa
Lights when the cassette is on the tray.

ⓛ **RELAY indicator**
Lights when the deck is in the relay mode.

ⓜ **CD SYNCHRO indicator**
Lights when synchro recording from a CD player is being carried out. It will flash if relay synchro recording is not operating properly. (— page 18)

INDICATORS

Tape running indicator

When power switch ON	Repeated alternate flashing	
"Perform the following" indication	Repeated flashing of all lights	
Mode	**Forward**	**Reverse**
Playback/Record	Flashing steadily to the right	Flashing steadily to the left
Fast forward and MS	Flashing faster than with playback	—
Fast reverse and MS	—	Flashing faster than with playback
Stop	Lights up	Lights up
Recording pause	Flashing	Flashing
Play pause	Flashing	Flashing

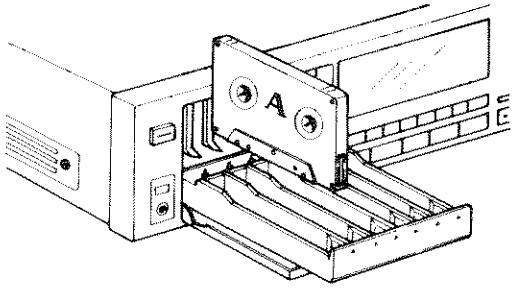
RECORDING

- Before turning on the POWER switch, ensure that the TIMER switch is set to OFF. If the TIMER switch is set to REC, RELAY REC or PLAY, recording or playback will begin automatically approximately 8 seconds after the POWER switch is turned on.

1. Press the POWER switch ①.

2. Place the cassettes on the tray.

Press the OPEN/CLOSE button ⑳ and the tray will automatically slide out. Insert the cassette so that the "A" side is on the left and the exposed (tape) side is facing down. The tray can hold up to 6 cassettes at once.



3. Press the OPEN/CLOSE button ⑳ to close the tray.

4. Press one of the Cassette Number buttons ⑲ to load the cassette for recording.

5. Select the tape transport mode with the reverse mode (REVERSE MODE) switch ④.

To record on both sides of the tape, set the switch to the " ↻ " position. To record on only one side of the tape, set the switch to the " → " position.

6. Select the Dolby noise reduction systems with the DOLBY NR switch ⑦.

7. Press the recording (●) button ⑭ to enter the recording standby mode.

8. Adjust the recording level using the REC LEVEL control ⑧.

Operate the amplifier to play the source you plan to record and use the REC LEVEL control ⑧ to adjust the level to the signal displayed on the level meter. (See the "SETTING THE RECORDING LEVEL" section.)

9. Start recording by pressing the appropriate play (▶ or ◀) button ⑱ or the pause (▮▮) button ⑬.

Single side recording (REVERSE MODE switch: →)

To record on the forward side of the tape (the left side):

Press the ▶ button. (Forward recording)

To record on the reverse side of the tape (the right side):

Press the ◀ button. (Reverse recording)

Double side recording (REVERSE MODE switch: ↻)

Press the ▶ button. If the ◀ button is pressed, recording will stop after only one side is recorded. Switching from the REV direction to the FWD direction in this state is not possible.

NOTE:

During recording, the CASSETTE RETURN and CASSETTE NUMBER buttons can not operate.

To stop recording

Press the stop (■) button ⑱.

To pause recording

Press the pause (▮▮) button ⑬. To resume recording, press the pause button again or press the appropriate play (▶ or ◀) button ⑱.

SETTING THE RECORDING LEVEL

Adjustment of the recording level is a key point in making recordings with good sound quality. It is necessary to set the recording level as high as possible in order to optimize the signal-to-noise ratio and expand the dynamic range. However, if the recording level is set excessively high, the recorded sound will be distorted. On the other hand, if in order to avoid distortion the recording level is set too low, tape hiss noise will become noticeable. If the maximum level of the sound to be recorded is set right at the limit (the maximum recording level) of the tape, the characteristics of the tape will be fully utilized and good sound quality will result. The maximum recording level of a tape depends on its type, so it is necessary to make adjustments to match the type of tape in use.

With normal (NORM) and chrome (CrO_2) tapes, use the REC LEVEL control ⑧ to adjust the recording level so that the +5 dB indicator on the level display lights occasionally. With metal (METAL) tapes, adjust the recording level so that the +8 dB indicator on the level display lights occasionally.

The level meter provided on this unit has a peak hold function. This function holds the peak level for 2 seconds to facilitate adjustment of the recording level.

Actually, the optimum recording level also varies slightly according to the type of music or brand of tape. To fully utilize tape characteristics and make even better quality recordings, it is also important for you to listen to your recordings to check the playback sound and make adjustments if necessary.

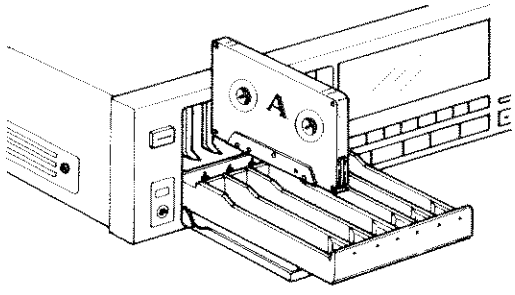
Recording balance adjustment

Use the REC BALANCE control ⑨ to compensate for unbalance of the left and right channels due to the source to be recorded or equipment to be used. Rotating the control in the L direction increases the level of the left channel. Rotating the control in the R direction increases the level of the right channel.

PLAYBACK

1. Press the POWER switch ①.

2. Place the cassettes on the tray.
Press the OPEN/CLOSE button ⑳ and the tray will automatically slide out. Insert the cassette so that the "A" side is on the left and the exposed (tape) side is facing down. The tray can hold up to 6 cassettes at once.



3. Press the OPEN/CLOSE button ⑳ to close the tray.

4. Press one of the Cassette Number buttons ⑲ to load the cassette for playback.

5. Select the tape transport mode with the reverse mode (REVERSE MODE) switch ④.
To repeatedly play both sides of the tape, set the switch to the "↻" position. During playback of the cassette you wish to hear, both sides of the tape are played back continuously until 16 sides have been played back. To play only one side of the tape, set the switch to the "→" position.
When set to relay playback, the ↻ (repeat) mode turns into the two-way (⇉) mode. After both sides of a cassette are played back, playback continues on the next cassette.

6. Select the Dolby noise reduction systems with the DOLBY NR switch ⑦.
If the tape to be played was recorded with Dolby NR off, set the DOLBY NR switch to the OFF position. If the tape was recorded with Dolby B-type or C-type noise reduction, set the DOLBY NR switch accordingly to B or C.

NOTE:
When loading tapes with different Dolby NR settings, adjust to the appropriate settings as necessary during playback.

7. Start playback by pressing the appropriate play (▶ or ◀) button ⑱.
Single side playback (REVERSE MODE switch: →)
To play the forward side of the tape (the left side):
Press the ▶ button.
To play the reverse side of the tape (the right side):
Press the ◀ button.
Double side playback (REVERSE MODE switch: ↻)
Press the ▶ button to begin playback from the forward side or press the ◀ button to begin playback from the reverse side.
- If you do not press one of the Cassette Number buttons, then the lowest numbered cassette will be loaded.

To stop playback
Press the stop (■) button ⑰.

To temporarily pause playback
Press the pause (▮▮) button ⑬. To resume playback, press the pause button again.

To fast-forward or rewind the tape
- Perform this operation when the unit is in stop mode. If the tape is playing, press the stop (■) button before carrying out this operation.
  When the FWD tape transport indicator is lit, press the ▶▶ button to fast-forward the tape toward the end, or press the ◀◀ button to rewind the tape toward the beginning.
  When the REV tape transport indicator is lit.
  Press the ▶▶ button to rewind the tape toward the beginning, or press the ◀◀ button to fast-forward the tape toward the end.

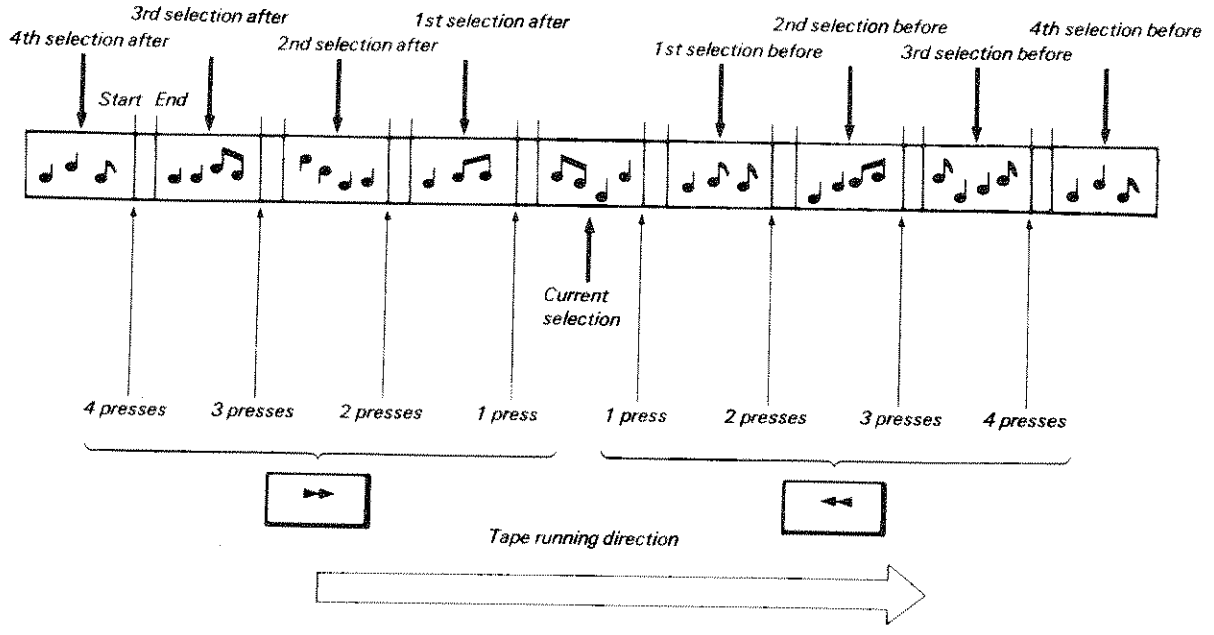
To search for the beginning of a selection
Press the ◀◀ or ▶▶ button during playback (Music Search → on page 16.)

RELAY PLAYBACK
The order of playback will go from the lowest numbered cassette to the highest numbered cassette if the RELAY button ⑮ is pressed during playback, or if the RELAY button ⑮ is pressed in the stop mode and then the Play (▶ or ◀) button ⑱ is pressed.

RANDOM PLAYBACK
If the RANDOM button ⑮ is pressed in the stop mode or in the playback mode, the playback of all cassettes on the tray will be in a random order. (The RANDOM indicator will light up). The unit will stop when one side (in the → mode) or both sides (in the ↻ mode) have been fully played back.

NOTE:
If a blank section is played back for approximately 15 seconds, the blank skip function will come into effect. The tape is automatically forwarded to the beginning of the next selection and then playback begins.

Example for when the tape running indicator is lit (▷▷▷▷)



The music search function may not be able to accurately locate the blank spaces between selections when the following types of tape are played, resulting in misoperation. If this occurs, keep in mind that this is a characteristic of the music search function and is not a malfunction of the cassette deck.

- Tapes which do not have blank spaces of 4 seconds or more between selections.
- Tapes such as classical music tapes which contain low-level sections of several seconds in length or which contain breaks in the middle of a selection of 4 seconds or longer.
- Tapes which contain many interruptions, such as tapes of meetings or foreign language learning tapes.
- Tapes which contain excessive noise in the blank sections between selections.

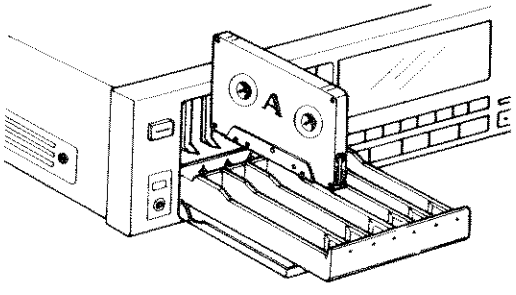
RELAY SYNCHRO RECORDING

NOTE:
During Relay Synchro Recording, program recording is only possible from each disc to one separate cassette.

1. **Load a compact disc into the CD player.**
2. **Place the cassettes on the tray.**

NOTE:
Insert cassette tapes with a recording duration longer than the playing time of the disc.

Press the OPEN/CLOSE button ⑳ and the tray will automatically slide out. Insert the cassette so that the "A" side is on the left and the exposed (tape) side is facing down. The tray can hold up to 6 cassettes at once. Make sure the erasure preventation tabs are intact.



3. **Press the OPEN/CLOSE button ⑳ to close the tray.**
4. **Press the ALL REWIND button ⑩ to rewind all cassette tapes to be recorded on.**
5. **Press one of the Cassette Number buttons ⑲ to load for recording first.**
6. **Press the RELAY button ⑮ to enter the relay mode.**
7. **Select the tape transport mode with the reverse mode (REVERSE MODE) switch ④.**

To record on both sides of the tape, set the switch to the " ⊂ " position. To record on only one side of the tape, set the switch to the " ⊐ " position.

8. **Select the Dolby noise reduction systems with the DOLBY NR switch ⑦.**
9. **Press the recording (●) button ⑭ to enter the recording standby mode.**
10. **Press the play button of the CD player.**
11. **Adjust the recording level.** (→ page 13)
12. **Press the stop button ⑱ of this unit and the CD player.**
- If this unit and the CD player are not in stop mode, CD synchro recording cannot be carried out.

13. **Press the CD SYNCHRO button ⑪.**
- The cassette deck begins recording and then the CD player starts playing about 10 seconds later.

When the compact disc finishes playing:
The CD player enters the stop mode and the cassette deck will change the next cassette tape and the deck enters the recording-pause mode and then switches to the stop mode after one minute. Change the disc and press the PLAY button on the CD player to resume the recording mode.

When the CD player changes discs (with twin-tray or multi-play CD players):
The cassette deck will change to the next cassette tape and the deck enters the recording-pause mode. The CD player will change the disc automatically.

When the end of tape is reached while the CD player is still playing:
The CD player will play until the end of the disc. The cassette deck enters the recording-pause mode until the CD player finishes playback.

If the relay synchro is not operating properly:
- If the CD SYNCHRO display and the 1—6 display flashes at the end of relay synchro, this is due to one of the following causes:

1 A tape with broken-off erasure prevention tabs was inserted.
2 The tape ran out before the end of the CD.
In the above cases, ☐ is displayed together with the relevant tape number. Example: [1]

NOTES:
- *If a cassette tape from which the erasure prevention tabs have been removed is in the tray, then the deck will skip that tape and relay to the next cassette tape.*
- *If a tape with broken-off erasure prevention tabs is present in the RELAY mode, the unit remains in the STOP mode until the disc has been completely played back. Then the CD SYNCHRO indicator flashes.*

TROUBLESHOOTING

Incorrect operations are often mistaken for trouble and malfunctions. If you think that there is something wrong with this component, check the points below. Sometimes the trouble may lie in another component. Investigate the other components and electrical appliances being used. If the trouble cannot be rectified even after exercising the checks listed below, ask your nearest PIONEER authorized service center or your dealer to carry out repair work.

Symptom	Cause	Remedy
POWER		
Cannot turn power on.	• The power plug is removed. • The component (stereo amplifier, audio timer, etc.) to which the power cord is connected is off.	• Insert the power plug correctly. • Turn the stereo amplifier or audio timer on.
REMOTE CONTROL UNIT (CT-M66R only)		
The remote control does not operate.	The system remote control cord is connected.	Send the remote control infrared signal to the remote control receiving unit of the system.
PLAYBACK		
Immediately stops.	• The tape is completely wound. • The tape is slack.	• Play back in the opposite direction. • Rewind the tape. • Take up tape slack (see page 4).
The level meter does not work.	• The tape is not recorded. • The tape head is dirty.	• Replace the tape with a recorded one. • Clean the head (see page 3, 20)
No sound	• The amplifier input selector is not correctly set. • The amplifier volume level setting is too low. • Connection problems (wrong connection, cord removed, poor contact, broken wire).	• Set the amplifier input selector correctly. • Turn the amplifier volume control up. • Connect securely.
RECORDING		
The recording indicator does not light up.	The cassette erasure prevention tabs are broken.	• Replace the cassette with one whose tabs are intact. • Cover the hole under the tab (see page 4).
The level meter does not work.	• The REC LEVEL control is set too low. • The amplifier is not delivering a recording signal (from the tuner, CD player, etc.). • Wrong connection, connection cord removed, poor contact, broken wire.	• Turn the REC LEVEL control up. • Set the amplifier recording output selector correctly. • Check connections.
Immediately stops.	• The tape is completely wound up. • The tape is slack.	• Record in the opposite direction. • Rewind the tape. • Take up tape slack (see page 4).
Cannot record.	The tape head is dirty.	Clean the head (see page 3, 20).
CD-deck synchro recording cannot be carried out.	CD-Deck synchro control cord and Input/Output cords are not connected.	Connect correctly (see page 18).
The CD SYNCHRO indicator is flashing	• The cassette erasure preventation tabs are broken. • The tape has run out while in the CD·DECK SYNCHRO mode.	• Replace the cassette with one whose tabs are intact. • Replace the tape with a longer one.

SPECIFICATIONS

System ..... 4 track, 2-channel stereo
Heads ..... "Hard Permalloy" recording/playback head ×1
"Ferrite" erasing head ×1
Motor ..... DC servo motor (capstan) ×1
DC motor (reel, open/close, loading) ×3
Wow and Flutter ..... No more than 0.055% (WRMS)
No more than ±0.16% (DIN)
Fast Winding Time ..... Approximately 90 seconds (C-60 tape)

Frequency Response
−20 dB recording:
Normal tape ..... 20 to 17,000 Hz, ±6 dB
Chrome tape ..... 20 to 18,000 Hz, ±6 dB
Metal tape ..... 20 to 19,000 Hz, ±6 dB
Signal-to-Noise Ratio
Dolby NR OFF ..... More than 58 dB

Noise Reduction Effect
Dolby NR B type ON ..... More than 10 dB (at 5 kHz)
Dolby NR C type ON ..... More than 19 dB (at 5 kHz)

Harmonic Distortion ..... No more than 1.0% (0 dB)
Input (Sensitivity)
LINE (INPUT) ..... 63 mV (Input impedance 50 kΩ)
Output (Reference level)
LINE (OUTPUT) ..... 316 mV (Output impedance 5.8 kΩ)
Phones ..... 0.25 mW (Load impedance 8 Ω)
(CT-M66R only)

Subfunctions

- DOLBY NR B/C types
- DOLBY HX PRO (CT-M66R only)
- Music search over ±15 selections
- CD-Deck synchro recording capability
- Tape counter/Time counter
- Tape Remaining Time indicators (6 seg) (CT-M66R only)
- FL peak level meter (8 seg + ∞)
- Automatic space recording mute
- One-touch recording pause
- Automatic tape selector
- Automatic reverse (CT-M66R: Quick reverse)
- Phones jack (CT-M66R only)
- TIMER Recording/TIMER RELAY Recording/TIMER Playback
- System remote control compatible

[For CT-M66R, CT-M55R (U.S., Canadian, Australian and Multivoltage models]

- Relay recording/Relay playback
- All rewind
- Cassette random playback
- Cassette scan playback

Miscellaneous
(CT-M66R)
Power Requirements
U.S., Canadian models ..... AC 120 Volts, 60 Hz
European model ..... AC 220 Volts ~, 50/60 Hz
U.K., Australian models ..... AC 240 Volts ~, 50/60 Hz
U.S. military and other destination models ..... AC 110 V/120 V ~ 127 V/220 V/240 V (switchable), 50/60 Hz
Power Consumption 25W
Dimensions ..... 420 (W) × 136 (H) × 372 (D) mm
16-9/16(W) × 5-3/8(H) × 14-5/8(D) in
Weight (without package) ..... 7.5 kg (16 lb 9 oz)

(CT-M55R)
Power Requirements
U.S., Canadian models ..... AC 120 Volts, 60 Hz
Other destination models ..... AC 110 V/120 V ~ 127 V/220 V/240 V (switchable), 50/60 Hz
Power Consumption
U.S., Canadian models 21W
Other destination models 23W
Dimensions ..... 420 (W) × 130 (H) × 372 (D) mm
16-9/16(W) × 5-1/8(H) × 14-5/8(D) in
Weight (without package) ..... 7.4 kg (16 lb 5 oz)

Accessories
Operating instructions 1
Connection cord with pin plugs 2
CD-Deck synchro control cord 1
System remote control cord 1
[For CT-M66R, CT-M55R (U.S., Canadian, Australian and Multivoltage models]
Remote control unit (CT-M66R only) 1
Dry cell batteries "AAA" [IEC-R03(UM-4)] (CT-M66R only) .. 2

NOTE:
Specifications and design subject to possible modifications without notice due to improvements.

<RRB1085>